

How does an Electric Car work?

<https://www.youtube.com/watch?v=3SAxXUIre28>

- 1. What are the two main parts of an induction motor?**
- 2. What does the speed of an induction motor depend on?**
- 3. What is the most sizeable advantage of electric cars when compared to internal combustion cars?**
- 4. Why do induction motors have a higher power to weight than IC engines?**
- 5. In an electric car where does the motor receive power from?**
- 6. How are the cells connected to produce the power required to run your electric car?**
- 7. How is effective cooling guaranteed in Tesla motors?**
- 8. Where is the battery pack placed?**
- 9. Why does an advanced car like this use an open differential rather than a limited slip differential?**
- 10. What are the advantages of electric cars?**